

3 Day Drilling for Non-Drilling Personnel



Dr. Qamar J. Sharif

B.Sc Mining Engineering

M.Sc Petroleum Engineering

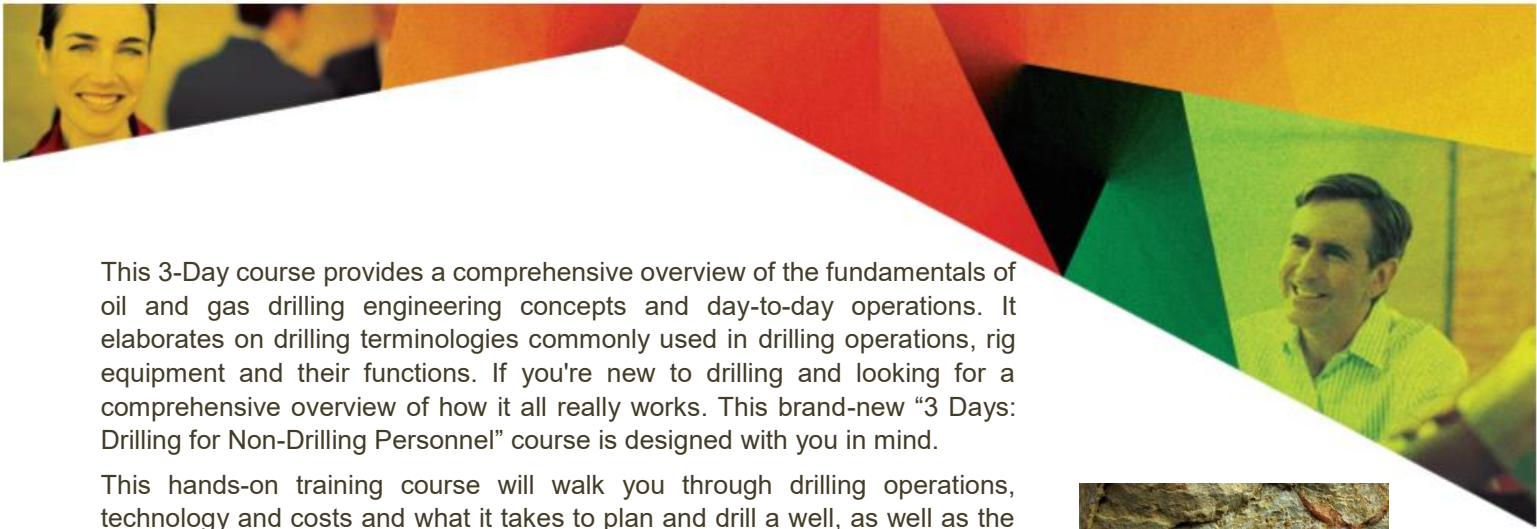
PhD. Petroleum Engineering



O&G Knowledge Sharing Platform

Enhancing Return on Investment in Oil & Gas Training

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This 3-Day course provides a comprehensive overview of the fundamentals of oil and gas drilling engineering concepts and day-to-day operations. It elaborates on drilling terminologies commonly used in drilling operations, rig equipment and their functions. If you're new to drilling and looking for a comprehensive overview of how it all really works. This brand-new "3 Days: Drilling for Non-Drilling Personnel" course is designed with you in mind.

This hands-on training course will walk you through drilling operations, technology and costs and what it takes to plan and drill a well, as well as the logistics and roles of various service companies involved in the process. At the end of the course, you will be literate in oil and gas and be able to read and understand a daily drilling report!

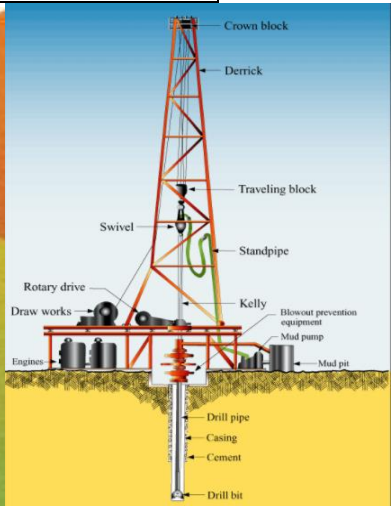


What will this course cover?

Fundamentals of drilling operations; the drilling rig equipment and their functions; drilling terminologies; drilling processes; planning of drilling operations; logistics, role and responsibilities of service companies including drilling contractor; the functions of drilling fluid, casing, cementing and components of a drill string; the different types of drilling contracts and the types of wells; and, HSE and resources requirements during drilling.

What will you learn?	Who will benefit?
<p>On completion of this course you will be able to fully understand the following:</p> <ul style="list-style-type: none"> • Understand the concepts and terminology • How oil and gas is formed in the earth and basic geology • Get to grips with the fundamentals of drilling • Learn all you need to know about the drilling rig, basic well design, drilling bits, and routine drilling operations • How to calculate a drilling cost analysis • Discover how to estimate drilling costs, calculate the daily rig rate, and account for variable costs • Explore health, safety and security in the drilling environment 	<p>The following oil and gas company personnel will benefit from the knowledge shared in this course:</p> <ul style="list-style-type: none"> • Reservoir Engineers • Petrophysicists • Geoscientists • Economists, Accountants and planners • Facilities planning engineers • Mid-level management • Service Companies • Logistics • Procurement • IT, HR and HSE personnel • Secretaries and support staff

A PERFECT BLEND of **expertise and readiness to share knowledge**, designed to exceed our client's expectations.



DAY 1

INTRODUCTION TO OIL & GAS INDUSTRY

- Oil and Gas Development
- Formations, rock pressure, and hydrocarbon traps
- Petroleum reservoirs
- Exploration processes

INTRODUCTION TO DRILLING

- Definitions and terminologies
- Drilling rig team
- Oil company structure
- Drilling contractor responsibilities
- Drilling service companies' responsibilities
- Drilling rig types
- Land rigs
- Offshore rigs

DRILLING RIG COMPONENTS

- Drilling rig components and functions
- Rig power system
- Hoisting system
- Circulating system
- Rotating system
- Drilling data recording system
- Well control system

WELL PLANNING AND DESIGN

- Well planning and design process
- Data inputs
- Long lead time items and procurement
- Offset wells reviews
- Well Cost Estimate (AFE)
- Drilling fluids design
- Well trajectories
- Directional drilling

DAY 2

DRILLING BITS

- Types of bits
- Classification of bits
- Rock failure mechanisms
- Bit records
- Components of drill string

DRILLING OPERATIONS AND HOLE CLEANING

- Well drilling activities
- Drilling parameters
- Drilled cuttings handling
- Drilling fluids (mud)
- Typical drilling problems and lost time

FUNCTIONS OF DRILLING FLUIDS

- Mud properties
- Water-based muds
- Oil-based muds
- Hydrostatic pressure
- Buoyancy
- Rheological models

CASING AND CEMENTING

- Functions of casing and cementing
- Properties of cement
- Single stage and multi-stage cementing

BLOWOUT PREVENTION SYSTEM

- Well control
- Kick and its causes
- Prevention of kicks
- Well Shut-in
- Well kill operations

DAY 3

LOGISTIC SUPPORT AND SERVICES

- Rig location and access to services
- Weather conditions
- Supply vessels
- Helicopters
- Land base
- Sea port facility

HEALTH, SAFETY, ENVIRONMENT AND SECURITY

- People and safety
- Personal Protective Equipment (PPE)
- Drilling operations and equipment safety
- Slip and trip
- Fall protection
- Hazardous Energy
- Chemical Hazards
- Fire Safety
- Hydrogen sulfide safety
- Oil spill prevention and response
- First Aid

WELL COMPLETION

- Types of completions
- Perforating a well
- Well testing
- Completion equipment, concepts and techniques
- Multizone completions
- Artificial lift technique
- Workover operations
- Wireline pressure control equipment and Christmas tree





Dr. QAMAR J. SHARIF

Dr. Sharif is a petroleum engineering specialist with Saudi Aramco. He has over 35 years of practical experience in the oil and gas industry, including academia. He has diversified background in drilling, workover and completion operations, research, technology development and implementation, field development planning, well cost estimation, contracts and contracting strategy for oil and gas operations. He started his career on a steam-powered rig as a trainee drilling engineer in 1980. He worked as Assistant driller, driller and tour pusher on offshore drilling rigs in Abu-Dhabi, U.A.E.

After working 11 years in operations he joined graduate school and earned his MS and PhD in Petroleum Engineering from Texas A&M University, College Station, Texas. He has a unique blend of hands-on field operations and academic knowledge. He worked with Shell International Exploration and Production (SIEP) in Houston and was a recipient of the Shell President Award for premier performance for design and implementation of multi-string steam injection well design at Bakersfield, California.

Dr. Sharif has been involved in new joint ventures startup, product line development, commercialization strategy for Enventure GT, an Expandable Tubular Company (a JV between Shell and Halliburton). He deployed the first expandable casing, downhole.

He worked with Shell Nigeria, Farcodus Yokri Project, Warri and reduced well completion time by more than 50% for dual completions. He has expertise in developing novel ideas and transforming them into robust and practical solutions. He has been teaching stuck pipe prevention and lost time reduction course and conducted an awareness campaign for offshore drilling department. He has been involved in teaching undergraduate and graduate courses at King Fahd University of Petroleum and Minerals (KFUPM), Petroleum Engineering Department, Dhahran, Saudi Arabia. He brings out the best in his students.

He served as Curriculum Advisor - Well Construction discipline, representing Saudi Aramco with PetroSkills.

EDUCATION

- B.Sc Mining Engineering
- M. Sc Petroleum Engineering, Texas A&M University, USA
- PhD Petroleum Engineering, Texas A&M University, USA

PORTFOLIO OF COURSES

- Offshore and Deep-Water Drilling
- Drilling Operations
- Stuck Pipe Prevention
- Drilling Operations Optimization
- Advanced Drilling Engineering
- Drilling Hydraulics Design

PUBLICATIONS

- Fiber Glass Lined Tubular as completion string for corrosion protection
- Application of Drilling-with-Casing (DwC) Technology
- Meeting Economic Challenges of Deepwater Drilling With Expandable Tubular Technology
- Strategic Cost Leadership - reduction of completion time by more than fifty percent
- Probability of getting stuck while drilling and probability of freeing the pipe, if stuck
- Unconventional Methods for Shallow Water Flow Conductor Installation
- Carbonated Water Imbibition Flooding for fractured reservoirs

COURSES DELIVERED IN

Cambodia, Australia, Singapore, Kuala Lumpur, Dubai, London, Houston, Mexico, Pakistan and Saudi Arabia

Please complete the following Form and e-mail it to mianma@OGKnowledgeShare.com OR Submit the same details via the **Event Registration** on the website www.OGKnowledgeShare.com. We will then send you additional course details along with a detailed course registration Form.

Course Name	<input type="text"/>		
Course Venue	<input type="text"/>	Course Date	<input type="text"/>
Company	<input type="text"/>		
First Name	<input type="text"/>	Last Name	<input type="text"/>
Title	<input type="text"/>		
Email	<input type="text"/>	Phone	<input type="text"/>
Address	<input type="text"/>		
City	<input type="text"/>	State	<input type="text"/>

Full payment is due within 14 days from date of invoice and before the course commences. Delegates will not be allowed entry to the course if any payments are outstanding. A confirmation letter and invoice will be sent to you on receipt of your booking.

You may substitute delegates at any time as long as reasonable advance notice is given to O&G Knowledge Sharing Platform. For any cancellation received in writing not less than twenty (20) working days prior to the date of the training course, you will receive a full refund less US\$ 150 administration fee and any related bank or credit card charges.

Delegates who cancel the registration less than twenty (20) working days of the date of training course, or who do not attend the course, are liable to pay the full course fee and no refunds will be granted.

In the event that KSP cancels or postpones the course for any reason, the delegates will be given choice to (a) request full refund less applicable credit card or bank charges, (b) attend the same course at the rescheduled date at the same or other venue or (c) receive credit note to be used by any employee of the same company for any other course offered by KSP, which must occur within one year from the date of postponement.

COMPANY GUARANTEE

If Company Payment is selected as the Billing Method, an official letter from the company, signed by HR or responsible Management, stating names of the delegates who will attend the course and the total course fee payment guaranteed by the company to be paid within 30 days upon receipt of invoice from KSP shall be submitted ten (10) working days before the start date of the course.

CHARGES AND FEES

1. For Payment by Direct Telegraphic Transfer, client has to bear both local and overseas bank charges.
2. For credit card payment, there is additional 4% credit card processing fee, which shall be added to the course fee.

COURSE FEES & VENUE

Middle East – US\$ 2,500

All Other Locations – US\$ 2,950

The fees are per participant. Hotel accommodation and travel costs are not included in the fees. The Fees include refreshments, lunch and course material. Course is held preferably in a 5-star hotel. The final venue selection will depend upon the number of delegates attending the course and availability of the venue. All delegates will be informed about the venue two weeks before the course start date.

808 W. Boxborough Dr.,
Wilmington, DE 19810, USA

Tel: +1 (303) 872 0533

Mob.: +966 50 857 3255

e-mail: mianma@OGKnowledgeShare.com